

1/46

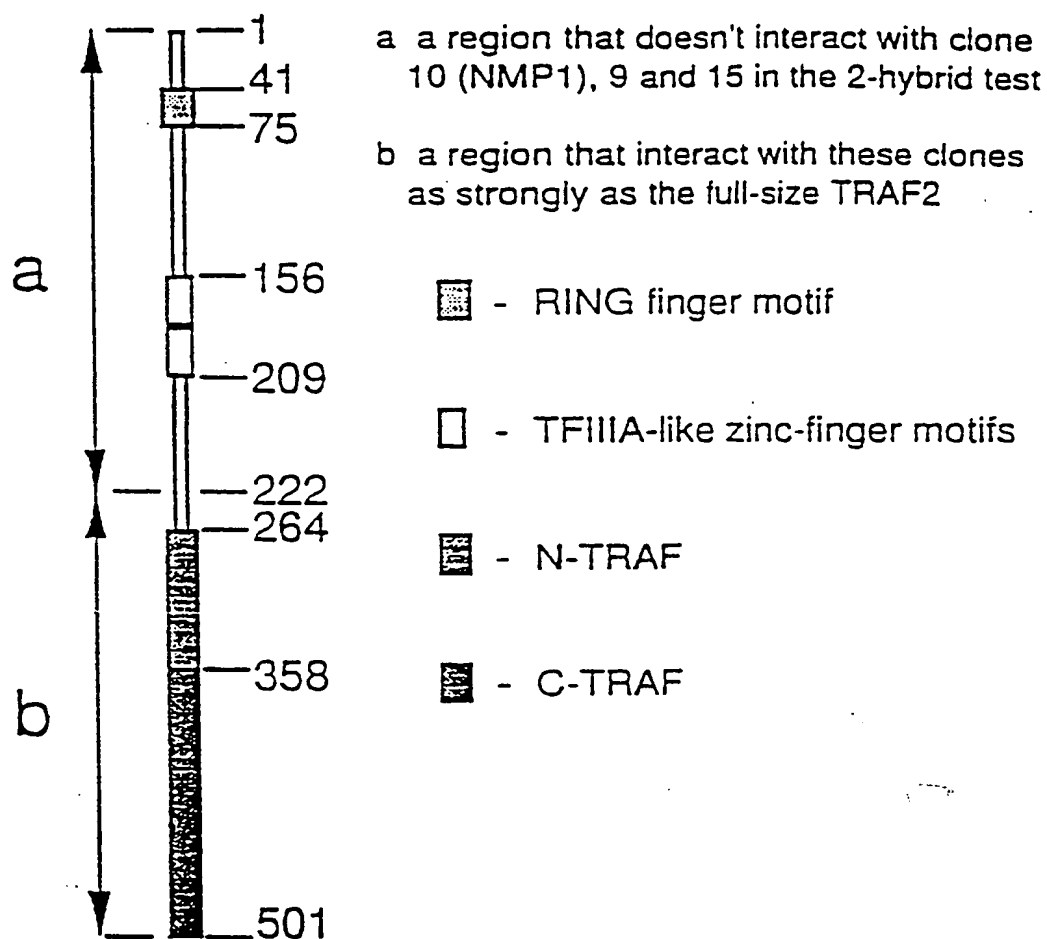


FIG. 1

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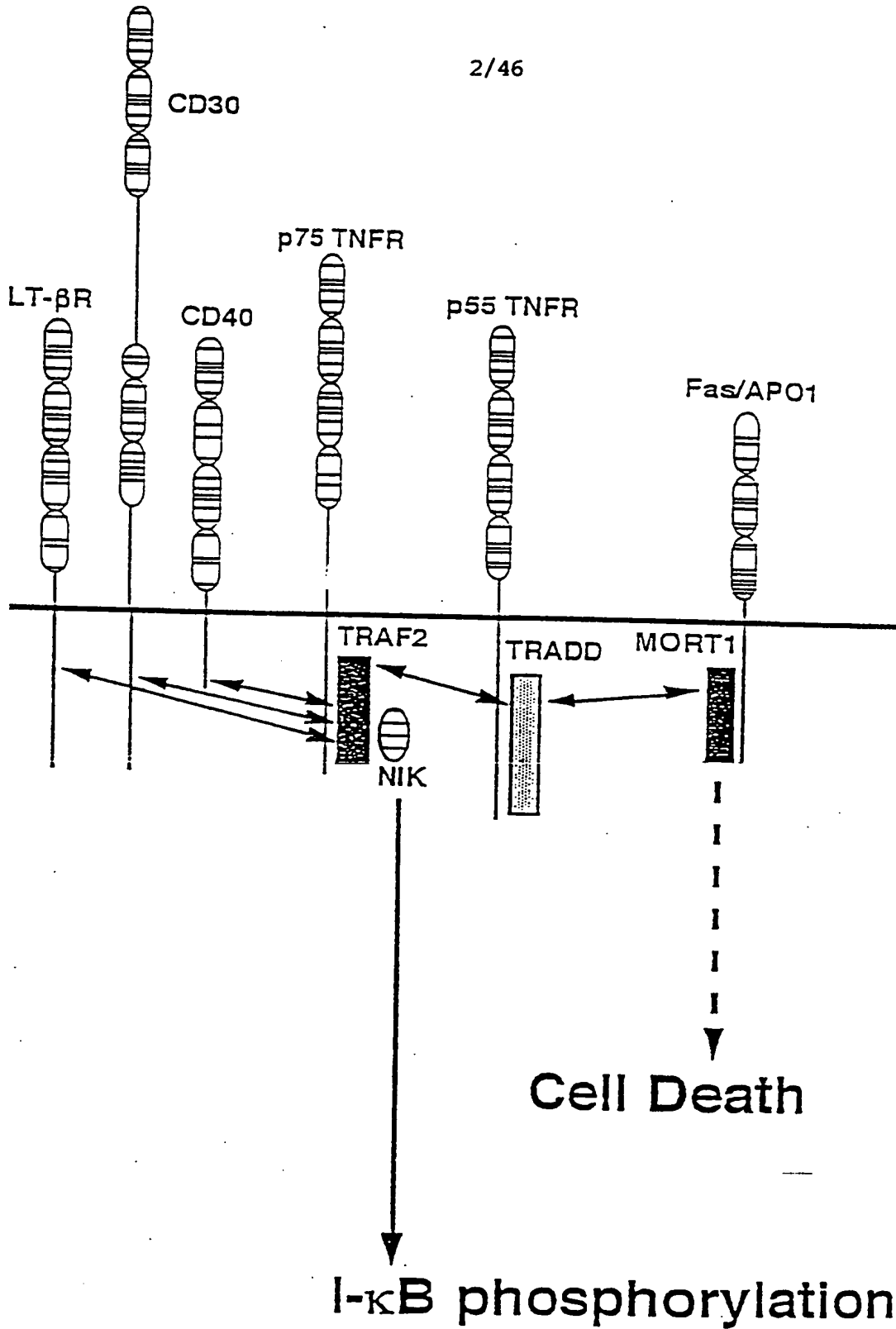


FIG. 2A

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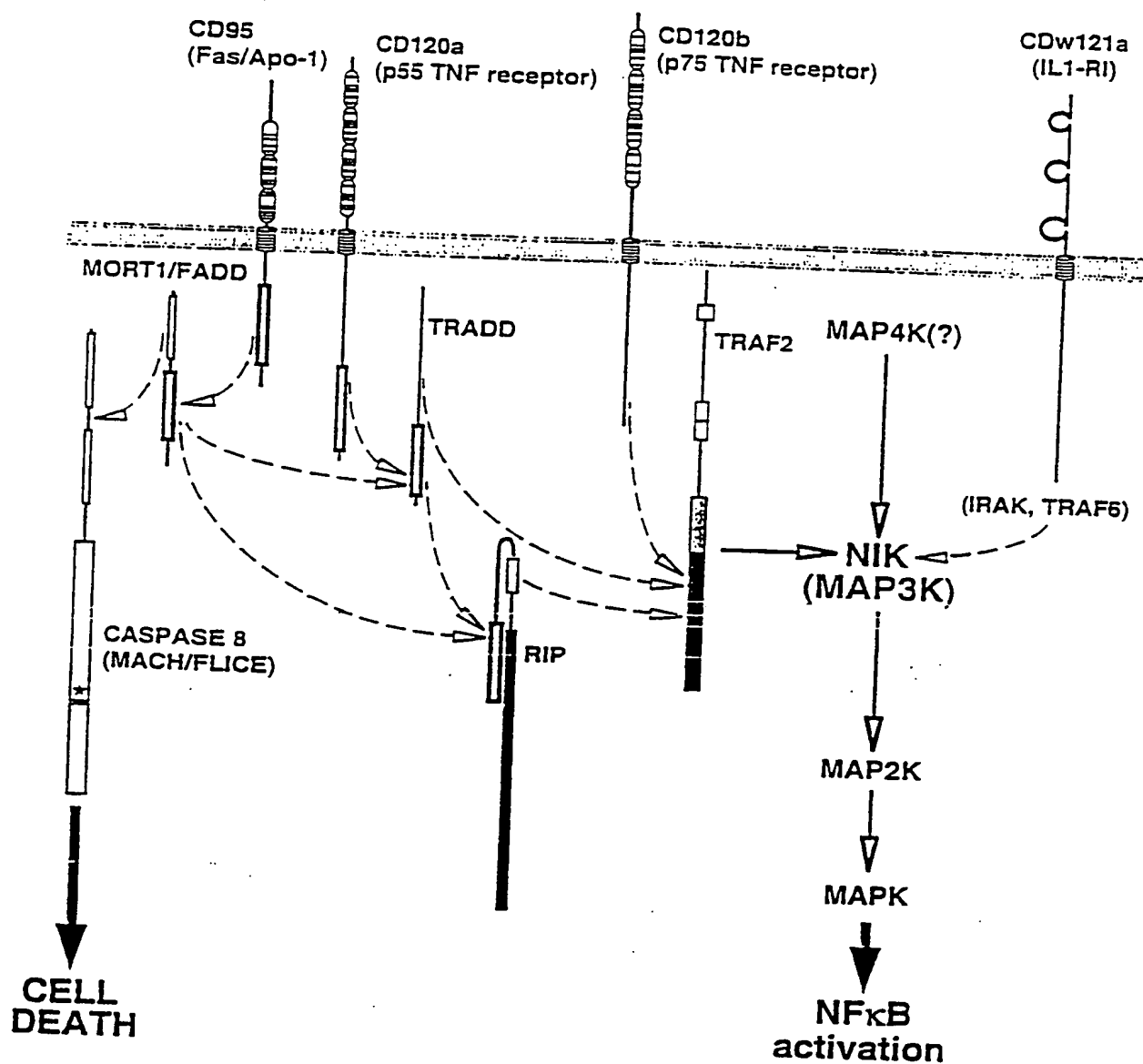


FIG. 2B

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Length: 1906 July 7, 1996 12:35 Type: N Check: 7122 ..

1 CATTGGGTCA CGCGGTGGCG GCGCTCTAGA ATAGTGGATC CCCCgggGCTG
51 CAGGAATTCTG ATTCGAGGCC ACGAAGGCCG GCGGCGCGGC GCAnGCACCG
101 GCCCCGGGGAn AGGCnCCATG AGCGGATCnC nGAACnATGA CAAAAGACAA
151 TTTCTGCTGG AGCGACTGCT GGATGCAGTG AAACAGTGCC AGATCCGCTT
201 TnGAGGGAGA AAGGAGATTG CCTCGGATTC CGACAGCAGG GTCACCTGTC
251 TGTGTGCCCA GTTTGAAGCC GTCCTGCAGC ATGGCTTGAA GAGGAGTCGA
301 GGATTGGCAC TCACAGCGGC AGCGATCAAG CAGGCAGCGG GCTTTGCCAG
351 CAAAACCGAA ACAGAGCCCCG TGTTCCTGGTA CTACGTGAAG GAGGTCTCTCA
401 ACAAGCACGA GCTGCAGCGC TTCTACTCCC TGCGCCACAT CGCCTCAGAC
451 gTGGGCCGGG GTCGCGCCTG GCTGcGCTGT GCCCTCAACG AACACTCCCT
501 GGAGCGCTAC CTGCACATGC TCCTGGCCGA CCGCTGCAGG CTGAGCACTT
551 TTTATGAAGA CTGGTCTTTT GTGATGGaTG AAGAAAGGTC CAGTATGCTT
601 CCTACCATGG CAGCAGGTCT GAACTCCATA CTCTTTGCGA TTAACATCGA
651 CAACAAGGAT TTGAACGGGC AGAGTAAGTT TGCTCCCACC GTTTCAGACC
701 TCTTAAAGGA GTCAACGCAG AACGTGACCT CCTTGCTGAA GGAGTCCACG
751 CAAGGAGtGA GCAGCCTGTT CAGGGAGATC ACAGcCTcCT cTGCCGTcTC
801 CATCcTCATC AAACCTGAAC AGGAGACCGA CCCTTGcCTG TCGTGTCCAG
851 GAATGTCAGT GCTGATGCCA AATGCAAAAA GGAGCGGAAG AAGAAAAAGA

FIG. 3A

901 AAGTGACCAA CATAATCTCA TTTGATGATG AGGAAGATGA GCAGAACTCT
951 GGGGACGTGT TTAAAAAGAC ACCTGGGGCA GGGGAGAGCT CAGAGGACAA
1001 CTCCGACCGC TCCTCTGTCA ATATCATGTC CGCCTTTGAA AGCCCCCTTCG
1051 GGCCTAACTC CAATGGAATC AGAGCAGCAA CTCATGGAAA ATTGATTCCC
1101 TGTCTTTGAA CGGGGAGTTT GGGTACCAGA AGCTTGATGT GAAAAGCATC
1151 GAtGAtGAAG ATgTGGATGA AAACGAAGAT GACgTGTATG GAAACTCATC
1201 AGGAAGGAAG CACAGGGGCC ACTCGGAGTC GCCCGAGAAG CCACTGGAAG
1251 GGAACACCTg CCTCTCCcAG ATGCACAGCT GGgCtCCGCT GAAGgTgCTG
1301 CaCaATGACT CCGACATCCT CTTCCCTGTC AGTGGCGTGG gCTCCTACAG
1351 CCCAGCAGAT gCCCCCCTCG GAAGCCTGGA GAACGGGACA GGACCAGAGG
1401 ACCACGTTCT CCCGGATCCT GGACTTCGGT ACAGTGTGGA AGCCAGCTCT

FIG. 3B

1451 CCAGGCCACG GAAGTCCTCT GAGCAGCCTG TTACTTCTGC CTCAGTGCCA
1501 GAGTCCATGA CAATTAGTGA ACTGCGCCAG GCCACTGTGG CCATGATGAA
1551 CAGGAAGGAT GAGCTGGAGG AGGAGAACAG ATCACTGCGA AACCTGCTCG
1601 ACGGTGAGAT GGAGCACTCA GCCGCGCTCC GGCAAGAGGT GGACACCTTG
1651 AAAAGGAAGG TGGCTGAACA GGAGGAGCGG CAGGGCATGA AGGTCCAGGC
1701 GCTGGCCAGC TATCTTTGCT ATTTTGTGAG GAGATTCTAA CCCCACGTGA
1751 GAACCATGTG GTGGAGAAAT GGAGGGAGAG AGAAATCCAA CAGTTCCTGA
1801 TAGTCTCATT TGAGCTCCTG GATCCAGTCT TTCCTGAAGC TGTGTTTCCT
1851 CTGGACTTTT CATGTATGTG AGCCAATAAA TTGCTTTCAT TCCTTGAAAA
1901 AAAAAA

FIG. 3C

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TRANSLATE of: 9hhh check: 7122 from: 1 to: 1906
generated symbols 1 to: 635.

9hhh.pep Length: 604 August 23, 1996 15:03 Type: P Check: 4554

1 XTGPGXGXMS GSXNXDKRQF LLERLLDAVK QCQIRFXGRK EIASDSDSRV
51 TCLCAQFEAV LQHGLKRSRG LALTAATAIKQ AAGFASKTET EPVFWYYVKE
101 VLNKHELQRF YSLRHASDV GRGRAWLRCA LNEHSLERYL HMILLADRCRL
151 STFYEDWSFV MDEERSSMLP TMAAGLNSIL FAINIDNKDL NGQSKFAPTV
201 SDLLKESTQN VTSLLKESTQ GVSSLFREIT ASSAVSILIK PEQETDFCLS
251 CPGMSVLMFN AKRSGRRKRK *PT*SHLMMR KMSRTLGTCL KRHLGQGRAQ
301 RTTPTAPLSI SCPPLKAPSG LTPMESEQQL MEN*FPVFER GVWVPEA*CE
351 KHR**RCG*K RR*RVWKLIR KEAQGPLGVA REATGREHLP LPDAQLGSAE
401 GAAQ*LRHPL PCQWRGLLQP SRCPPRKEGE RDRTRGFRSP GSWTSVQCGS
451 QLSRPRKSSE QPVTSASVPE SMTISELRQA TVAMMNRKDE LEEENRSLRN
501 LLDGEMEHSALRQEVDTLK RKVAEQEERQ GMKVQALASY LCYFVRRF*P
551 HVRTMWWRNG GREKSNSS** SHLSSWIQSF LKLCFLWTFH VCEPINCFHS
601 LKKK

FIG. 3D

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clone 10 Length: 2631 August 23, 1996 17:18 Type: N Check: 5107 ..

1 CCCcTcTcAC AGCCcAgGCC ATCCAAGAGG GgCTGAGGAA AGAGCCCATC
51 cACCGcGTGT cTGCAGcGGA GcTGGGAGGG AAGGTGAACC GGGCAcTACA
101 GCAAGTGGGA GGTcTGAAGA GCCCTTGGAG GGGAGAATAT AAAGAACCAA
151 GACATCCACc GCCAAATCAA GCCaAtTACC ACCAGACCcT CcATGCCcAg
201 CCGAGAGAGc TtTcGCCAAG GGCCcAGGG CCCCgGCCAg CTGAGGAGAC
251 AACAggCAGA GCCCcTAAGc TCCAGCcTCC TcTCCCACCA GAGCCCCCAG
301 AGCCaAACAA GTcTCCTCCC ttGACTttGA GCAAGGAGGA GTcTGGGATG
351 TGGGAACCCCT TACcTcTGTc cTCCCTGGAG CCAGCCCCCTG CCAGAAACCC
401 CAGcTCACCA GAGCGGAAAG CAACCGTCCC GGAGCAGGAA CTGCAGCAGC
451 TGGAAATAGA ATTATTCCTC AACAGCCTGT CCCAGcCATT TTcTcTGGAG
501 GAGCAGGAGC AAATTCTcTc GTGCCTCAGC ATCGACAGCC TCTCCCtGTC
551 GGATGACAGT GAGAAGAACC CATCAAAGGC CTCTCAAAGC TCGCGGGACA
601 CCCTGAGCTC AGGCGTACAC TCCTGGAGCA GcCAGGCCGA GGcTCGAAGc
651 TCCAGCTGGA ACATGGTGcT GGCCCGGGg CgGCCCACCG ACACCCCCAAG
701 CTATTTCAAT GGTGTGAAAG TCCAAATACA GTCTCTTAAT GGTGAACACC
751 TGCACATCCG GGAGTTCCAC CGGGTCAAAG TGGGAGACAT CGCCACTGGC
801 ATCAGCAGCC AGATCCCAGC TGCAGCCTTC AGCTTGGTCA CCAAAGACGG
851 GCAGCCTGTT CGCTACGACA TGGAGGTGCC AGACTCGGGC ATCGACCTGC
901 AGTGCACACT GGCCCCTGAT GGCAGCTTCG CCTGGAGCTG GAGGGTCAAG
951 CATGGCCAGC TGGAGAACAG GCCCTAACCC TGCCCTCCAC CGCCGGcTCC
1001 ACACTGCCGG aAAGCAGCCT TCCTGCTCGG tGCACGATGC TGCCCTGaAA
1051 AcACAGGcTC AGCcGTTCCC AgGGgATyTG .CCAGcCCCC cGGcTcArca
1101 G.tGGGaAcC AGGGccTcG. CAGC.AGC.A AGGT.gGGGG CAAGC.AGAA
1151 TGCCtCCCCAG GATTTcACA. CcTGAGCCCC. TGCCCCA.CC cTGcTGaada
1201 AAACAyT.CC GCCAcGtGAA GagAcAGaAG GAGGATGG.C AGGAgTt..A
1251 CcTygGGGAA aCaAAAcAGg gaTcTtTt.tT cTGcCCcTGc TCCAGT.cGA

FIG. 4A

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1301 gTGGCCTG. ACCCGcTTGG A.TCagTGAC CATTtGtTGG CAGA.CAGGG
1351 GagAgCAGcT TCCAGCcTGG gTCAGAAGGG GTGGGcGAGC CctTcGGCCC
1401 cTcAcCCT.c cAGGcTGcTG tG.AGAGTGT CAAGTGTGTa AGGG.CCCAA
1451 A.cTcAGG.T TCAGTGCAGA ACCAgGT.CA GCAGGTATGC CCGCCCG.TA
1501 GGTAA..GG GGGCCcTcT. AAACCCCTTG cCT.GGCCT. CAcCT.GGCC
1551 AGCTCA.CCC cTTTTGGGTG TAGGGGAAAA GAATGCCTGA CCCTGGGAAG
1601 GCTWCCCTGG TAgaATACAC CACACTTTTC AGGTTGTTGC AACACAGGTC
1651 CTGAGTTGAC CTCTGGTTCA GCCAAGGACC AAAGAAGGTG TGTAAGTGAA
1701 GTGGTTCTCA gT.CCCCAgA CATgTgCCCC TTTGCTGCTG GCTACCACTC
1751 TTCCCCAgAg CAGCAGGcCC CgAgCCCCCTT CAGGcCCAgC AcTGcCCCCAG
1801 AcTCgCTGGC aCTCAGTTCC CTCATCTGTA AAGGTGAAGG GTGATGCAGG

1851 ATATGCCTGA CAGGAACAGT CTGTGGAtGG AcATGATCAg TGcT.AAGG.
1901 AAAGCAGcAG AGaGAGACgy TCcGGCGCCC CAg.CCCCAc T.ATCAGTgT
1951 .CCAgCGTGc T.GGTT.CCC CAg.AGCACA GcT.CAg.CA TcA.CACTGA
2001 CACT.CAcCC T.GCCcTGCC CCT.GGCCA. GAgGGTACTG CCG.ACGGCA
2051 CTTTGCAc.T CTGATG.ACC TCAAAGCACT TTCATGgcT. GcCCTct..G
2101 GCAGGG.CAG GG.CAGGG.C AgTGAcA.CT GTAgG.AGCA TA.gCAA.GC
2151 CAgGAGATGG GGTG.AAGGG A.CACAGTCT TGAGCTGTCC A.CATGCATG
2201 TGAcT.CCTC AAAcCTcTT. .CCAG.ATTT CTCTAAGAAT AGCA.CCCCC
2251 TT.CCCCATT GCCCCAGCTT AgCCTCTTCT CCCAGGGGAG CTA.CTCAgG
2301 ACTCACGTAg CATTAAATCA GCTGTG.AAT CGTCAGGGGG TGTCTGCTAg
2351 CCTCAACCTC CTGGGGCaGG GGACgCCGAg ACTCCGTGGG AgAAgCTCAT
2401 TCcCaCATCT TGCCAAgACA gCCTTT.GTC CAgCTGTCCA CATTGAgtCA
2451 gACTGCTCCC GGGGAgAgAg cCCCGGcCCC CAgCACATAA AGAACTGCAG
2501 CCTTGGTACT GCAGAGTCTG GGTGTAGAG AACTCTTTGT AAGCAATAAA
2551 GTTTGGGGTG ATGACAAATG TTAaaaaaAG GCCTTCGTGG CCTCGAATCA
2601 AGCTTATCGA TACCGTCGAC CTCGAGGGGG G

FIG. 4B

10/46

Length: 1253 July 10, 1996 clone15

1 CATTGGAGTC ACGCGGTGGC GGCGCTCTAG AATAGTGGAT CCCCgggCTg
51 CA.GGAATTC GATTTCGAGcC CACGAAGGCC CCTTCTTCTG TGGTCGCGGC
101 ACGTTTACaG CCGCAAGCac CCAGCGGCAg CTGAAGGAGG CTTTTGAgAG
151 GCTCCTgCCC CAGGTGGAGG CGGCCCCGCAa GGCCATCCgC GCCGCTCAGG
201 TGGAGCGCTA TGTGCCCCGAA CACGAGCGAT GCTGCTGGTG CCTGTGCTGC
251 GGCTGTGAGG TGCGGGAACA CCTGAGCCAT GGAAACCTGA CGGTGCTGTA
301 CGGGGGgCTG CTGGAGCATC TGGCCAGCCC AGAGCACAAG AAAGCAACCA
351 ACAAATTCTG GTGGGAGAAC AAAGCTGAGG TCCAGATGAA AGAGAAGTTT
401 CTGGTCACTC CCCAGGATTA TGCGCGATTC AAGAAATCCA TGGTGAAAGG
451 TTTGGATTCC TATGAAGAAA AGGAGGATAA AGTGAtCAAG GAGaTGgCAG
501 CTCAGATCCG TGaGGTGGAg CAGAgCCGAC AGGAGgTGGt TCGGtCTGTc
551 TTAGAgCcTC AGGCAGTGcC AGaCCcAGAA GAGGGcTCTT CAGCacCTAG
601 AAGCTGGAAA GGGATGAACA GCCAAGTAGc TTCCAGCTTA CAGcAGcCCT
651 CAAATTTGGA CCTGCCACCA GCTCCAGAGC TTGActGGAT GEAGACAGGA
701 CCATCTCTGA CATTcATTGG CCATCAGGAT ATACCAGGAG TTGGTAACAT
751 CCACTCAGGT GCCACACCTC CCTGGATGAT CCAAGATGAA GAATACATTG
801 CTGGGAACCA AGAAATAGGA CCATCCTATG AAGAATTTCT TAAAGAAAAG
851 GAAAAACAGA AGTTGAAAAA ACTcCCCCCA GACCGAGTTG GGGCCAACTT
901 TGATCACAGC TCCAGGACCA GTGCAGGCTG GCTGCCCTCT TTTgGGcCGC
951 GTCTGGAATA ATGGACGCCG CTGGCAGTCC AGACATCAAC TcCAAAACTG
1001 AAGCTGCAGC AATGAAGAAG CAGTCACATA CAGAAAAAAG CTAATCATGC
1051 TCTCTACCAA CTACCATGAG GCTAAAAGCC AAAGTCAACC AAACCCCTAT
1101 TATACCTTCC ACCCAAATTC TTTATCATTG TCTTTCTTAG GAAACAGACA
1151 TACTCATTCA TTTGATTTAA TAAAGTTTTA TTTTTCGGCC TTCGTGGCCT
1201 CGAATCAAGC TTATCGATAC CGtCGACCTC GAGGGGGGGC CGTACCCACT
1251 TTT

FIG. 5A

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TRANSLATE of: 15cc check: 9389 from: 2 to: 1253
generated symbols 1 to: 417.

15cc.pep Length: 417 August 23, 1996 14:32 Type: P Check: 7921 ..

1 IGVTRWRRSR IVDPRAXNS IRAHEGPFFC GRGTFTAAS QRQLKEAFER
51 LLPQVEAARK AIRAAQVERY VPEHERCCWC LCCGCEVREH LSHGNLTVLY
101 GGLLEHLASP EHKKATNKFW WENKAEVQMK EKFLVTPQDY ARFKKSMVKG
151 LDSYEEKEDK VIKEMAAQIR EVEQSRQEVV RSVLEPQAVP DPEEGSSAPR
201 SWKGMNSQVA SSLQQPSNLD LPPAPELDWM ETGPSLTFIG HQDIPGVGNI
251 HSGATPPWMI QDEEYIAGNQ EIGPSYEEFL KEKEKQKLKK LPPDRVGANF
301 DHSSRTSAGW LPSFGPRLZ* WTPLAVQTST PKLKLQQ*RS SHIQKKANHA
351 LYQLP*G*KP KSTKPLLYLP PKFFIIVFLR KQYYSFI*FN KVLFFGLRGL
401 ESSLSIPSTS RGGRTHF

FIG. 5B

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1 AGC GGG GGG ACT GTG CCG TGT GGA ACG TGT AGC TGT TGA AGG TGG ACT CTG TTA CCA TTG
 31
 61 AGG ATG TTT GGA GGA TGA GTA TGT GTG GCA GAG GCA CAC ATA AAC AGG CAG AGA CCC TTT
 91
 121 GCC CCT GCC TTT CTC CCC CAA CCC AAG GCT GAC CTG TGT TCT CCC AGG TCT GGG ATT CTA
 151
 181 AGT GAC CTG CTC TGT GTT TGG TCT CTC TCA GGA TGA GCA CAA GCC TGG GAG ATG GCA GTG
 211
 241 ATG GAA ATG GCC TGC CCA GGT GCC CCT GGC TCA GCA GTG GGG CAG CAG AAG GAA CTC CCC
 271
 M E M A C P G A P G S A V G Q Q K E L P
 301 AAG CCA AAG GAG AAG ACG CCG CCA CTG GGG AAG AAA CAG AGC TCC GTC TAC AAG CTT GAG
 331
 K P K E K T P P L G K K Q S S V Y K L E
 361 GCC GTG GAG AAG AGC CCT GTG TTC TGC GGA AAG TGG GAG ATC CTG AAT GAC GTG ATT ACC
 391
 A V E K S P P F C G K W E I L N D V I T
 421 AAG GGC ACA GCC AAG GAA GGC TCC GAG GCA GGG CCA GCT GCC ATC TCT ATC GCC CAG
 451
 K G T A K E G S E A G P A A I S I A Q
 481 GCT GAG TGT GAG AAT AGC CAA GAG TTC AGC CCC ACC TTT TCA GAA CGC ATT TTC ATC GCT
 511
 A E C E N S Q E F S P T F S E R I F I A
 541 GGG TCC AAA CAG TAC AGC CAG TCC GAG AGT CTT GAT CAG ATC CCC AAC AAT GTG GCC CAT
 571
 G S K Q Y S S Q S E S L D Q I P N N V A H

FIG. 6A

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601 GCT ACA GAG GGC AAA ATG GCC CGT GTG TGT TGG AAG GGA AAG CGT CGC AGC AAA GCC CGG
 A T E G K M A R V C W K G K R R S K A R
 661 AAG AAA CGG AAG AAG AGC TCA AAG TCC CTG GCT CAT GCA GGA GTG GCC TTG GCC AAA
 K K R K K K S S S K S L A H A G V A L A K
 721 CCC CTC CCC AGG ACC CCT GAG CAG GAG AGC TGC ACC ATC CCA GTG CAG GAG GAT GAG TCT
 P L P R T P E Q E S C T I P V Q E D E S
 781 CCA CTC GGC GCC CCA TAT GTT AGA AAC ACC CCG CAG TTC ACC AAG CCT CTG AAG GAA CCA
 P L G A P Y V R N T P Q F T K P L K E P
 841 GGC CTT GSG CAA CTC TGT TTT AAG CAG CTT GGC GAG GGC CTA CGG CCG GCT CTG CCT CGA
 G L G Q L C F K Q L G E G L R P A L P R
 901 TCA GAA CTC CAC AAA CTG ATC AGC CCC TTG CAA TGT CTG AAC CAC GTG TGG AAA CTG CAC
 S E L H K L I S P L Q C L N H V W K L H
 961 CAC CCC CAG GAC GGA GGC CCC CTG CCC CTG CCC AGC CAC CCC TTC CCC TAT AGC AGA CTG
 H P Q D G G P L P L P T H P F P Y S R L
 1021 CCT CAT CCC TTC CCA TTC CAC CCT CTC CAG CCC TGG AAA CCT CAC CCT CTG GAG TCC TTC
 P H P F P F H P L Q P W K P H P L E S F
 1081 CTG GGC AAA CTG GCC TGT GTA GAC AGC CAG AAA CCC TTG CCT GAC CCA CAC CTG AGC AAA
 L G K L A C V D S Q K P L P D P H L S K
 1141 CTG GCC TGT GTA GAC AGT CCA AAG CCC CTG CCT GGC CCA CAC CTG GAG CCC AGC TGC CTG
 L A C V D S P K P L P G P H L E P S C L
 1201 TCT CGT GGT GCC CAT GAG AAG TTT TCT GTG GAG GAA TAC CTA GTG CAT GCT CTG CAA GGC
 S R G A H E K F S V E E Y L V H A L Q G
 1261 AGC GTG AGC TCA AGC CAG GCC CAC AGC CTG ACC AGC CTG GCC AAG ACC TGG GCA GCA CGG
 S V S S S Q A H S L T S L A K T W A A R

FIG. 6B

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SEQUENCE 24333333

1321 GGC TCC AGA TCC CGG GAG CCC AGC CCC AAA ACT GAG GAC AAC GAG GGT GTC CTG CTC ACT
 G S R S R E P S P K T E D N E G V L L T
 1381 GAG AAA CTC AAG CCA GTG GAT TAT GAG TAC CGA GAA GTC CAC TGG GCC ACG CAC CAG
 E K L K P V D Y E Y R E E V H W A T H Q
 1441 CTC CGC CTG GGC AGA GGC TCC TTC GGA GAG GTG CAC AGG ATG GAG GAC AAG CAG ACT GGC
 L R L G R G S F G E V H R M E D K Q T G
 1501 TTC CAG TGC GCT GTC AAA AAG GTG GTC GGC CAC GTA TTT CCG GCA GAG GAG CTG ATG GCA
 F Q C A V K K V R L E V F R A E E L M A
 1561 TGT GCA GGA TTG ACC TCA CCC AGA ATT GTC CCT TTG TAT GGA GCT GTG AGA GAA GGG CCT
 C A G L T S P R I V P L Y G A V R E G P
 1621 TGG GTC AAC ATC TTC ATG GAG CTG GAA GGT GGC TCC CTG GGC CAG CTG GTC AAG GAG
 W V N I F M E L L E G G S L G Q L V K E
 1681 CAG GGC TGT CTC CCA GAG GAC CGG GCC CTG TAC TAC CTG GGC CAG GCC CTG GAG GGT CTG
 Q G C L P E D R A L Y Y L G Q A L E G L
 1741 GAA TAC CTC CAC TCA CGA AGG ATT CTG CAT GGG GAC GTC AAA GCT GAC AAC GTG CTC CTG
 E Y L H S R R I L H G D V K A D N V L L
 1801 TCC AGC GAT GGG AGC CAC GCA GCC CTC TGT GAC TTT GGC CAT GCT GTG TGT CTT CAA CCT
 S S D G S H A A L C D F G H A V C L Q P
 1861 GAT GGC CTG GGA AAG TCC TTG CTC ACA GGG GAC TAC ATC CCT GGC ACA GAG ACC CAC ATG
 D G L G K S L L T G D Y I P G T E T H M
 1921 GCT CCG GAG GTG CTG GGC AGG AGC TGC GAC GCC AAG GTG GAT GTC TGG AGC AGC TGC
 A P E V V L G R S C D A K V D V W S S C

FIG. 6C

5544070-32353750

1981 TGT ATG ATG CTG CAC ATG CTC AAC GGC TGC CAC CCC TGG ACT CAG TTC TTC CAG GGG CCG
C M L H M L N G C H P W T Q F F R G P
2041 CTC TGC CTC AAG ATT GCC AGC GAG CCT CCG CCT GTG AGG GAG ATC CCA CCC TCC TGC GCC
L C L K I A S E P P P V R E I P P S C A
2101 CCT CTC ACA GCC CAG GCC ATC CAA GAG GGG CTG AGG AAA GAG CCC ATC CAC CGC GTG TCT
P L T A Q A I Q E G L R K E P I H R V S
2161 GCA GCG GAG CTG GGA GGG AAG GTG AAC CCG GCA CTA CAG CAA GTG GGA GGT CTG AAG AGC
A A E L G G K V N R A L Q Q V G G L K S
2221 CCT TGG AGG GGA GAA TAT AAA GAA CCA AGA CAT CCA CCG CCA AAT CAA GCC AAT TAC CAC
P W R G E Y K E P R H P P N Q A N Y H
2281 CAG ACC CTC CAT GCC CAG CCG AGA GAG CTT TCG CCA AGG GCC CCA GGG CCC CCG CCA GCT
Q T L H A Q P R E L S P R A P G P R P A
2341 GAG GAG ACA ACA GGC AGA GCC CCT AAG CTC CAG CCT CCT CTC CCA CCA GAG CCC CCA GAG
E E T T G R A P K L Q P P L P P E P P E
2401 CCA AAC AAG TCT CCT CCC TTG ACT TTG AGC AAG GAG GAG TCT GGG ATG TGG GAA CCC TTA
P N K S P P L T L S K E E S G M W E P L
2461 CCT CTG TCC TCC CTG GAG CCA GCC CCT GGC AGA AAC CCC AGC TCA CCA GAG CCG AAA GCA
P L S S L E P A P A R N P S S P E R K A
2521 ACC GTC CCG GAG CAG GAA CTG CAG CAG CTG GAA ATA GAA TTA TTC CTC AAC AGC CTG TCC
T V P E Q E L Q Q L E I E L F L N S L S
2581 CAG CCA TTT TCT CTG GAG CAG CAG CAA ATT CTC TCG TGC CTC AGC ATC GAC AGC CTC
Q P F S L E E Q E Q I L S C L S I D S L
2641 TCC CTG TCG GAT GAC AGT GAG AAG AAC CCA TCA AAG GCC TCT CAA AGC TCG CCG GAC ACC
S L S D S E K N P S K A S Q S S R D T
2701 CTG AGC TCA GGC GTA CAC TCC TGG AGC AGC CAG GCC GAG GGT CGA AGC TCC AGC TGG AAC
L S S G V H S W S S Q A E A R S S S W N
2761 ATG GTG CTG GCC CCG GGG CCG CCC ACC GAC ACC CCA AGC TAT TTC AAT GGT GTG AAA GTG
M V L A R G R P T D T P S Y F N G V K V

FIG. 6D

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SUBSTITUTE SHEET (RULE 26)

2821 CAA ATA CAG TCT CTT AAT GGT GAA CAC CTG CAC ATC CGG GAG TTC CAC CGG GTC AAA GTG
 Q I Q S L N G E H L H I R E F H R V K V
 2881 GGA GAC ATC GCC ACT GGC ATC AGC AGC CAG ATC CCA GCT GCA GCC TTC AGC TTG GTC ACC
 G D I A T G I S S Q I P A A F S L V T
 2941 AAA GAC GGG CAG CCT GTT CGC TAC GAC ATG GAG GTG CCA GAC TCG GGC ATC GAC CTG CAG
 K D G Q P V R Y D M E V P D S G I D L Q
 3001 TGC ACA CTG GCC CCT GAT GGC AGC TTC GCC TGG AGC TGG AGG GTC AAG CAT GGC CAG CTG
 C T L A P D G S F A W S W R V K H G Q L
 3061 GAG AAC AGG CCC TAA CCC TGC CCT CCA CCG CCG GCT CCA CAC TGC CCG AAA GCA GGC TTC
 E N R P *
 3121 CTG CTC GGT GCA CGA TGC TGC CCT GAA AAC ACA GGC TCA GCC GTT CCC AGG GGA TTG CCA
 3181 GCC CCC CGG CTC ACA GTG GGA ACC AGG GCC TCG CAG CAG CAA GGT GGG GGC AAG CAG AAT
 3241 GCC TCC CAG GAT TTC ACA CCT GAG CCC TGC CCC ACC CTG CTG AAA AAA CAT CCG CCA CGT
 3301 GAA GAG ACA GAA GGA GGA TGG CAG GNG TTA CCT GGG GAA ACA AAA CAG GGA TCT TTT TCT
 3361 GCC CCT GCT CCA GTC GAG TTG GCC TGA CCC GCT TGG ATC AGT GAC CAT TTG TTG GCA GAC
 3421 AGG GGA GAG CAG CTT CCA GCC TGG GTC AGA AGG GGT GGG CGA GCC CTT CGG CCC CTC ACC
 3451

Fig. 9F

554050 32955760

3481 CTC CAG GCT GCT GTG AGA GTG TCA AGT GTG TAA GGG CCC AAA CTC AGG TTC AGT GCA GAA 3511
 3541 CCA GGT CAG CAG GTA TGC CCG CCC GTA GGT TAA GGT GGC CCT CTA AAC CCC TTG CCT GGC 3571
 3601 CTC ACC TGG CCA GCT CAC CCC TTT TGG GTG TAG GGG AAA AGA ATG CCT GAC CCT GGG AAG 3631
 3661 GCT CCC TGG TAG AAT ACA CCA CAC TTT TCA GGT TGT TGC AAC ACA GGT CCT GAG TTG ACC 3691
 3721 TCT GGT TCA GCC AAG GAC CAA AGA AGG TGT GTA AGT GAA GTG GTT CTC AGT CCC CAG ACA 3751
 3781 TGT GCC CCT TTG CTG CTG GCT ACC ACT CTT CCC CAG AGC AGC AGG CCC CGA GCC CCT TCA 3811
 3841 GGC CCA GCA CTG CCC CAG ACT CGC TGG CAC TCA GTT CCC TCA TCT GTA AAG GTG AAG GGT 3871
 3901 GAT GCA GGA TAT GCC TGA CAG GAA CAG TCT GTG GAT GGA CAT GAT CAG TGC TAA GGA AAG 3931
 3961 CAG CAG AGA GAG ACG TCC GGC GCC CCA GCC CCA CTA TCA GTG TCC AGC GTG CTG GTT CCC 3991
 4021 CAG AGC ACA GCT CAG CAT CAC ACT GAC ACT CAC CCT GCC CTG CCC CTG GCC AGA GGG TAC 4051
 4081 TGC CGA CGG CAC TTT GCA CTC TGA TGA CCT CAA AGC ACT TTC ATG GCT GCC CTC TGG CAG 4111

FIG. 6F

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4141 GGC AGG GCA GGG CAG TGA CAC TGT AGG AGC ATA GCA AGC CAG GAG ATG GGG TGA AGG GAC 4171
 4201 ACA GTC TTG AGC TGT CCA CAT GCA TGT GAC TCC TCA AAC CTC TTC CAG ATT TCT CTA AGA 4231
 4261 ATA GCA CCC CCT TCC CCA TTG CCC CAG CTT AGC CTC TTC TCC CAG GGG AGC TAC TCA GGA 4291
 4321 CTC ACG TAG CAT TAA ATC AGC TGT GAA TCG TCA GGG GGT GTC TGC TAG CCT CAA CCT CCT 4351
 4381 GGG GCA GGG GAC GCC GAG ACT CCG TGG GAG AAG CTC ATT CCC ACA TCT TGC CAA GAC AGC 4411
 4441 CTT TGT CCA GCT GTC CAC ATT GAG TCA GAC TGC TCC CGG GGA GAG AGC CCC GGC CCC CAG 4471
 4501 CAC ATA AAG AAC TGC AGC CTT GGT ACT GCA GAG TCT GGG TTG TAG AGA ACT CTT TGT AAG 4531
 4561 CAA TAA AGT TTG GGG TGA TGA CAA ATG TTA AAA AAA 4596

FIG. 6G

FIG. 7A

[illegible][illegible]

FIG. 7C

s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
s8	199	K	T	A	S	Y	T	R	F	Q	Q	L	L	K	K	T	M	T	K	N	V	T	N	S	H	I	R	Q	K	S	A	S	K	L	231
s1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s5	93	K	L	T	N	R	Y	E	E	D	D	G	D	D	E	I	I	R	L	S	N	G	D	R	I	D	E	D	L	H	S	G	V	K	125
s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
s8	232	K	S	S	R	S	S	S	E	S	I	K	S	K	L	K	N	S	K	S	Q	E	D	I	S	N	S	R	S	T	S	E	S	A	264

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Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

FIG. 7E

SUBSTITUTE SHEET (RULE 26)

est.	est.	est.	est.	est.	est.	est.	est.	est.	est.
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
2060	2061	2062	2063	2064	2065	2066	2067	2068	2069
2070	2071	2072	2073	2074	2075	2076	2077	2078	2079
2080	2081	2082	2083	2084	2085	2086	2087	2088	2089
2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
2100	2101	2102	2103	2104	2105	2106	2107	2108	2109
2110	2111	2112	2113	2114	2115	2116	2117	2118	2119
2120	2121	2122	2123	2124	2125	2126	2127	2128	2129
2130	2131	2132	2133	2134	2135	2136	2137	2138	2139
2140	2141	2142	2143	2144	2145	2146	2147	2148	2149
2150	2151	2152	2153	2154	2155	2156	2157	2158	2159
2160	2161	2162	2163	2164	2165	2166	2167	2168	2169
2170	2171	2172	2173	2174	2175	2176	2177	2178	2179
2180	2181	2182	2183	2184	2185	2186	2187	2188	2189
2190	2191	2192	2193	2194	2195	2196	2197	2198	2199
2200	2201	2202	2203	2204	2205	2206	2207	2208	2209
2210	2211	2212	2213	2214	2215	2216	2217	2218	2219
2220	2221	2222	2223	2224	2225	2226	2227	2228	2229
2230	2231	2232	2233	2234	2235	2236	2237	2238	2239
2240	2241	2242	2243	2244	2245	2246	2247	2248	2249
2250	2251	2252	2253	2254	2255	2256	2257	2258	2259
2260	2261	2262	2263	2264	2265	2266	2267	2268	2269
2270	2271	2272	2273	2274	2275	2276	2277	2278	2279
2280	2281	2282	2283	2284	2285	2286	2287	2288	2289
2290	2291	2292	2293	2294	2295	2296	2297	2298	2299
2300	2301	2302	2303	2304	2305	2306	2307	2308	2309
2310	2311	2312	2313	2314	2315	2316	2317	2318	2319
2320	2321	2322	2323	2324	2325	2326	2327	2328	2329
2330	2331	2332	2333	2334	2335	2336	2337	2338	2339
2340	2341	2342	2343	2344	2345	2346	2347	2348	2349
2350	2351	2352	2353	2354	2355	2356	2357	2358	2359
2360	2361	2362	2363	2364	2365	2366	2367	2368	2369
2370	2371	2372	2373	2374	2375	2376	2377	2378	2379
2380	2381	2382	2383	2384	2385	2386	2387	2	

FIG. 7G

[illegible][illegible]

FIG. 7I

s3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
s9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
s2	27	QNN-	I	EGRH	LNH	LTLPL	LKDL	-	-	-	-	GIENTA	52							
s6	44	CNLVTEEEI	KYLDKDILIAL	-	-	-	-	GVNKI	GD	70										
s8	589	TKLGINHKNVTFHM	TDFDCDI	-	-	-	-	GAAIPD	615											
s1	1	-	-	-	-	-	-	-	-	-	-	-	0							
s5	474	NLKLIDSSKQNFKAPDLLKYWDHLKN	TGHYIN	506																
s3	1	-	-	-	-	-	-	-	-	-	-	-	0							
s4	1	-	-	-	-	-	-	-	-	-	-	-	0							
s9	1	-	-	-	-	-	-	-	-	-	-	-	0							
s7	1	-	-	-	-	-	-	-	-	-	-	-	0							
s2	53	-KGKQFLK	-	-	-	-	-	-QRDYLR	E	-	-	66								
s6	71	RKILRK	-	-	-	-	-	SKSFQRDKRIEQ	09											
s8	616	DLEFLKKSLFLNTSGKIYIKDQM	KLQQKP	KPA	648															

SUBSTITUTE SHEET (RULE 26)

[illegible]

SUBSTITUTE SHEET (RULE 26)

FIG. 7L

s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
s9	14	S	A	V	G	Q	K	E	L	P	K	P	K	E	T	P	P	L	G	K	Q	S	S	V	Y	K	L	E	A	V	E				
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
s2	148	K	E	K	P	C	P	S	F	E	D	L	R	R	S	-	W	E	I	E	L	A	Q	P	A	A	L	S	S	Q	S	S	L	S	
s6	213	D	Q	T	-	P	S	D	K	A	I	S	T	S	-	K	K	L	Y	L	-	-	-	R	T	L	S	A	L	S	Q	V	G	P	
s8	781	K	D	E	G	T	E	I	D	F	N	H	R	R	E	-	S	P	Y	T	K	P	E	L	A	P	K	R	E	A	P	K	P	P	
s1	79	R	E	K	T	G	K	G	L	S	A	T	R	L	S	A	S	S	E	D	I	S	D	R	L	A	G	V	S	V	G	L	P	S	
s5	670	K	G	E	D	S	K	G	I	P	Y	R	V	V	A	N	S	S	D	L	D	R	H	A	H	Q	S	K	K	K	N	F	702		
s3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
s4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
s9	47	K	S	P	V	F	C	G	K	W	E	I	L	N	D	V	I	T	K	G	T	A	K	E	G	S	E	A	G	P	A	I	S	79	
s7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
s2	180	P	K	L	S	S	-	-	V	L	P	T	S	T	Q	K	R	S	V	R	S	N	N	A	K	P	F	E	S	-	-	-	-	206	
s6	241	S	S	S	N	-	-	L	L	A	-	-	-	Q	N	K	G	I	S	H	N	N	A	E	G	K	L	R	I	D	N	T	E	K	268
s8	813	A	N	T	S	P	Q	R	T	L	S	T	S	K	Q	N	K	P	I	R	L	V	R	A	S	T	K	I	S	R	S	K	R	S	845
s1	112	S	T	T	T	E	Q	P	K	P	A	V	Q	T	K	G	R	P	H	S	Q	C	L	N	S	S	P	L	S	H	A	Q	L	M	144
s5	703	S	T	D	P	F	D	Q	H	L	D	-	E	K	N	N	E	V	F	E	L	E	V	A	L	S	S	L	G	A	L	V	V	L	734

FIG. 7M

SUBSTITUTE SHEET (RULE 26)

FIG. 70

[illegible][illegible]

FIG. 7P

557070" 92955750

S3	12	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
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35/46

FIG. 7Q

36/46

664070 22333750

S3	75	S	V	R	Y	G	T	V	E	D	L	-	L	A	F	A	N	H	I	S	N	T	T	K	H	E	Y	R	C	R	P	-	-	103		
S4	75	S	V	R	Y	G	T	V	E	D	L	-	L	A	F	A	N	H	I	S	N	T	A	K	H	E	Y	R	C	R	P	-	-	103		
S9	344	S	V	S	S	Q	A	H	S	L	-	-	T	S	L	A	K	T	W	A	P	S	I	S	K	A	E	L	P	A	K	A	R	K	D	89
S7	57	S	I	R	K	S	S	I	G	I	F	S	K	A	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	392	
S2	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	412		
S6	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1135		
S8	1103	G	K	N	K	P	L	N	Q	A	K	T	P	K	R	T	K	T	I	A	E	-	-	-	-	-	-	-	-	-	-	-	-	-	402	
S1	391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1014		
S5	982	E	I	I	N	S	R	L	R	L	E	A	I	K	T	L	E	K	T	M	K	R	N	P	R	Q	M	G	K	V	L	D	A	T	D	131
S3	104	Q	E	S	G	I	L	L	N	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131	
S4	104	Q	E	S	G	I	L	L	N	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131	
S9	376	D	N	E	G	V	L	L	T	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	401	
S7	90	D	T	P	P	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	
S2	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	393	
S6	413	K	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	414	
S8	1136	K	L	K	R	O	N	T	K	M	W	G	T	R	M	V	E	V	T	E	N	H	M	V	S	I	N	K	A	K	N	S	K	G	-	-

FIG. 7R

664070" 24953760

S3	132	164	164	426	122	420	442	1201	429	1060
S4	132	164	164	426	122	420	442	1201	429	1060
S9	402	164	164	426	122	420	442	1201	429	1060
S7	95	164	164	426	122	420	442	1201	429	1060
S2	394	164	164	426	122	420	442	1201	429	1060
S6	415	164	164	426	122	420	442	1201	429	1060
S8	1169	164	164	426	122	420	442	1201	429	1060
S1	403	164	164	426	122	420	442	1201	429	1060
S5	1028	164	164	426	122	420	442	1201	429	1060
S3	165	169	169	431	127	425	475	1207	436	1068
S4	165	169	169	431	127	425	475	1207	436	1068
S9	427	169	169	431	127	425	475	1207	436	1068
S7	123	169	169	431	127	425	475	1207	436	1068
S2	421	169	169	431	127	425	475	1207	436	1068
S6	443	169	169	431	127	425	475	1207	436	1068
S8	1202	169	169	431	127	425	475	1207	436	1068
S1	430	169	169	431	127	425	475	1207	436	1068
S5	1061	169	169	431	127	425	475	1207	436	1068

FIG. 7S

[illegible][illegible]

FIG. 7T

664040 02955750

s3	215	V	L	E	K	L	E	S	C	G	P	M	R	E	F	E	I	-	W	V	T	K	H	V	L	K	G	L	S	246	
s4	215	V	L	E	K	L	E	S	C	G	P	M	R	E	F	E	I	-	W	V	T	K	H	V	L	K	G	L	S	246	
s9	477	L	G	Q	L	V	K	E	Q	C	L	P	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	508		
s7	186	I	S	G	L	L	T	M	Y	G	P	F	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	217		
s2	484	V	A	G	L	L	T	M	Y	G	P	F	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	515		
s6	542	S	S	M	L	L	N	N	Y	C	P	F	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	573		
s8	1265	V	G	S	L	L	R	M	Y	G	P	F	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	1296		
s1	491	V	A	H	L	L	S	K	Y	G	P	F	E	S	T	L	-	Y	Y	L	G	Q	A	L	K	G	L	S	522		
s5	1120	L	A	S	L	L	D	-	H	G	R	I	E	D	E	M	V	T	Q	Y	T	F	E	L	L	L	L	Q	1151		
s3	247	K	K	V	I	H	H	D	I	K	P	S	N	I	V	F	M	S	-	T	K	A	V	L	V	D	F	G	L	S	275
s4	247	K	K	V	I	H	H	D	I	K	P	S	N	I	V	F	M	S	-	T	K	A	V	L	V	D	F	G	L	S	275
s9	509	R	R	I	M	H	G	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	541
s7	218	N	G	I	M	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	249
s2	516	R	G	I	M	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	547
s6	574	N	I	M	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	604	
s8	1297	K	G	I	M	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	1327
s1	523	N	Q	I	M	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	555
s5	1152	S	G	V	V	H	R	D	I	K	P	S	N	I	V	F	M	S	-	S	H	A	A	L	C	D	F	G	L	S	1183

FIG. 7U

Year	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

s3	276	- - QMTEDVYLPK	- - - - -	D L R G T	E E E E H Y M	294
s4	276	- - QMTEDVYFPK	- - - - -	D L R G T	E E E E H Y M	294
s9	542	QPDGLGKSLLTGD	- - - - -	Y P G T	E E E E H Y M	563
s7	250	VELATMTG - - AK	- - - - -	S M K G T	P Y W M	268
s2	548	ELNSTSTKTGGARP	- - - - -	S F Q G S	F W M	570
s6	605	- - SPLNKKQNKRRA	- - - - -	S L Q G S V F	W M S	625
s8	1328	- - SKDIYSNSDM	- - - - -	T M R G T	V F W M	1346
s1	556	A - - SKGTGA GFQG	- - - - -	Q L L G T	I A F M	576
s5	1184	VGSRT RTVRNAA VQDFGVETKSLN	- - - - -	E M M G I	P M Y M	1216

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s3	295	S	P	V	I	L	O	R	-	-	-	G	H	S	T	K	A	D	Y	S	L	G	A	T	L	H	M	Q	T	G	I	324					
s4	295	S	P	V	I	L	O	R	-	-	-	G	H	S	T	K	A	D	Y	S	L	G	A	T	L	H	M	Q	T	G	I	324					
s9	564	A	P	V	V	L	G	H	-	-	-	S	C	D	A	K	V	D	V	W	S	S	G	C	M	H	M	Q	T	G	I	593					
s7	269	A	P	V	V	L	Q	T	-	-	-	G	H	S	F	S	A	D	W	S	V	G	C	T	V	E	M	A	T	G	K	298					
s2	571	A	P	V	V	V	K	-	Q	T	M	H	T	-	-	-	E	K	T	D	W	S	L	G	C	V	E	M	L	T	S	K	600				
s6	626	P	E	V	V	K	-	Q	T	A	T	-	-	-	-	A	K	A	D	I	W	S	T	G	C	V	V	E	M	T	G	K	H	655			
s8	1347	A	P	E	M	V	D	T	K	Q	G	Y	S	-	-	-	A	K	V	I	D	I	W	S	L	G	C	I	V	E	M	F	A	G	I	K	1377

FIG. 7V

[illegible]

FIG. 7W

S3	383	- - - -	L K	- - - -	H E A L N P R P R E D Q P R H G C S I F D S A	405
S4	383	- - - -	L K	- - - -	H E A L N P R P R E D Q P R H G C S I F D S A	405
S9	654	A L Q Q V G G	L K S P W R G E Y K E P R H H P P P N Q A N Y H Q I	- - - -	- - - -	686
S7	359	T A E H Q E A R P F L R S S F M G N P E N M A A Q R M D V R T S	- - - -	- - - -	- - - -	391
S2	659	S - - - -	- - - -	- - - -	- - - -	659
S6	714	A H I I - - - -	- - - -	- - - -	- - - -	717
S8	1441	E V N E T F N F K S T R L A K F I K S N D K L N S K I R I T S Q	- - - -	- - - -	- - - -	1473
S1	669	R T T W - - - -	- - - -	- - - -	- - - -	672
S5	1311	D T N P - - - -	- - - -	- - - -	- - - -	1314
S3	406	F D R K R L L S R K E	- - - -	- - - -	- - - -	417
S4	406	L E R K R L L S R K E	- - - -	- - - -	- - - -	417
S9	687	H A Q P R E L S P R A P G P R P A E E T T G R A P K L Q P P L P P	- - - -	- - - -	- - - -	719
S7	392	I P D M R A S C N G L K D V C G V S A V R C S T V Y P E N S L G K	- - - -	- - - -	- - - -	424
S2	0	- - - -	- - - -	- - - -	- - - -	659
S6	0	- - - -	- - - -	- - - -	- - - -	717
S8	1474	E N K T E - - - -	- - - -	- - - -	- - - -	1478

FIG. 7X

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667070 22333750

s3	418	E	L	P	E	N	A	D	S	S	C	T	G	S	T	E	E	S	E	M	V	L	R	C	R	C	E	S	L	Y	L	E	G	A	450
s4	418	E	L	P	E	N	A	D	S	S	C	T	G	S	T	E	E	S	E	M	V	L	R	C	R	C	E	S	L	Y	L	E	G	A	450
s9	720	E	P	P	E	P	N	K	S	P	P	L	L	S	K	E	E	S	G	M	W	E	P	L	P	E	P	A	P					752	
s7	425	E	S	L	W	K	L	G	N	S	D	D	D	M	C	Q	M	D	N	D	F	M	F	G	A	S	V	K	C	S	D			457	
s2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	659		
s6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	717		
s8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1478		
s1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	572		
s5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1314		
s3	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	461		
s4	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	461		
s9	753	A	R	N	P	S	P	E	R	K	A	T	V	P	E	Q	E	L	Q	Q	L	E	E	L	F	E	L	S	I	S	Q	P		785	
s7	458	H	S	P	A	N	Y	K	S	F	N	P	M	C	E	P	D	N	D	W	P	C	K	E	D	E	S	P	E	L	K	S	Q	490	
s2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	659		
s6	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	717		
s8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1478		
s1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	672		
s5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1314		

FIG. 7Y

SUBSTITUTE SHEET (RULE 26)

[illegible]

FIG. 7AA

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

[illegible]

FIG. 7BB